Problem on Recursion: Strategies for Climbing Staircase

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You are asked to program this method:

public HashSet<ArrayList<Integer>> climbStrategies(int h, int n)

The return value enumerates the set of all possible ways

for climbing a stair of height h, while each climb is up to n steps.

Assumptions: n ≤ h, each climb takes at least 1 step
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e.g., climbStrategies(4, 2) returns the following set enumerating the 5 ways for climbing a stair of height 4 and each climb takes up to 2 steps.

{ [1, 1, 1, 1],
        [1, 2],
        [1, 2, 1],
```

[2, 1, 1], [2, 2] }